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SEAL STRUCTURE

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ABSTRACT

PURPOSE: To maintain a seal function for a long period so as to enhance reliability by disposing a driven gear made of a resin on a shaft inserted into a cylindrical sleeve, and providing a seal portion for sealing a space defined between a sleeve and a shaft.

CONSTITUTION: A driven gear device D for a speed meter comprises a sleeve 2 made of a resin such as a polyamide resin or a saturated polyester resin, and a driven gear 1 inserted into the sleeve 2 and having a gear portion 11 to be meshed with a gear of a transmission. A seal portion 3 is disposed integrally with the driven gear 1 in a shaft 12 made of the same resin as the sleeve 2 fitted into the sleeve 2, for sealing a space defined between the sleeve 2 and the shaft 12. In disposing the seal portion 3, a metal portion 21 is disposed at the inner circumferential surface of the sleeve 2 while an annular groove is formed at the outer peripheral surface of the shaft 12, where a cylindrical main body unit 31 of the seal portion 3 with a lip portion 32 in slide-contact with the metal portion 21 projected thereon is fitted into the annular groove, to thus fix the seal portion 3.

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